



WELDING CHAMBER HABITAT

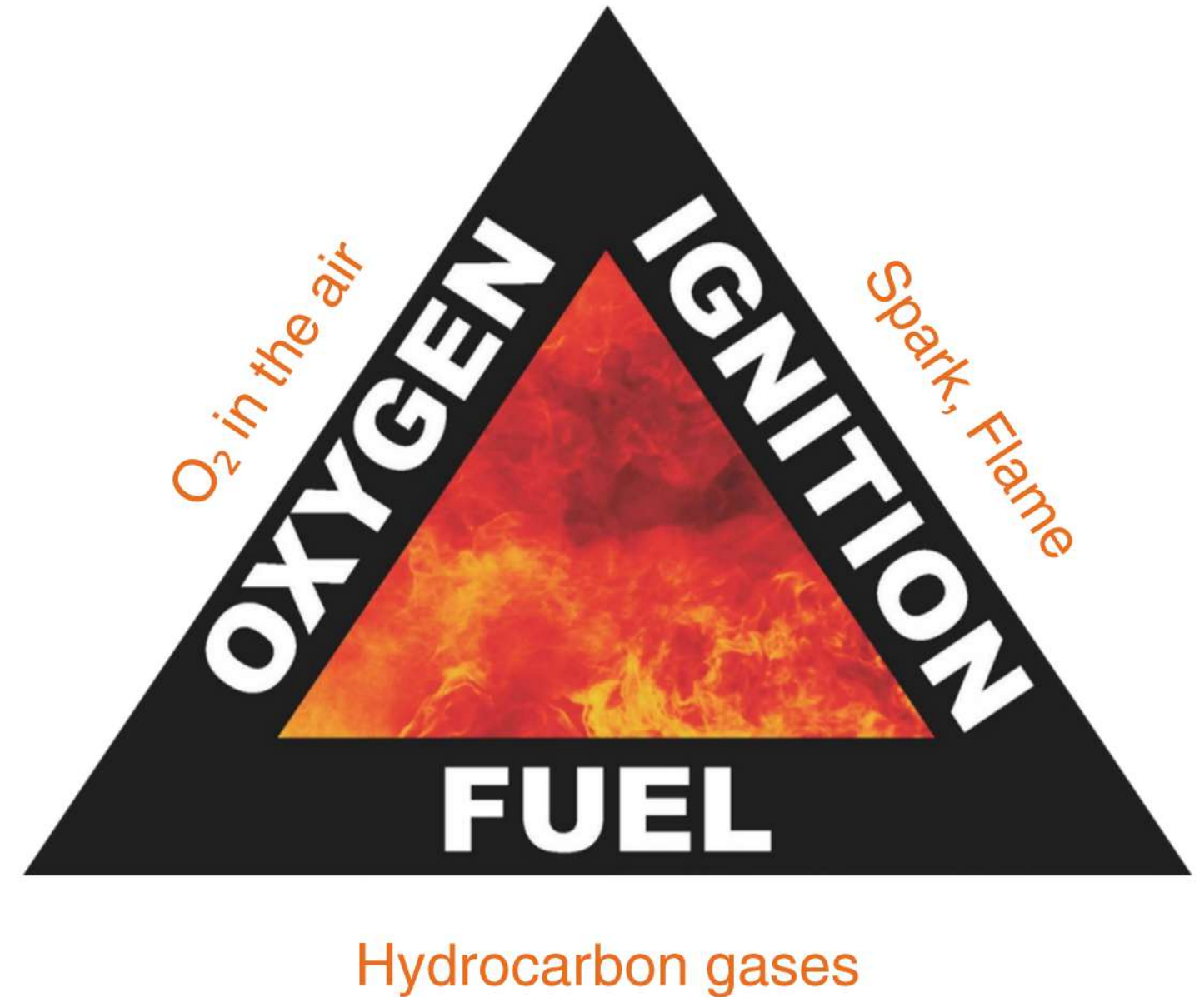
AUTOMATIC GAS DETECTION SYSTEM



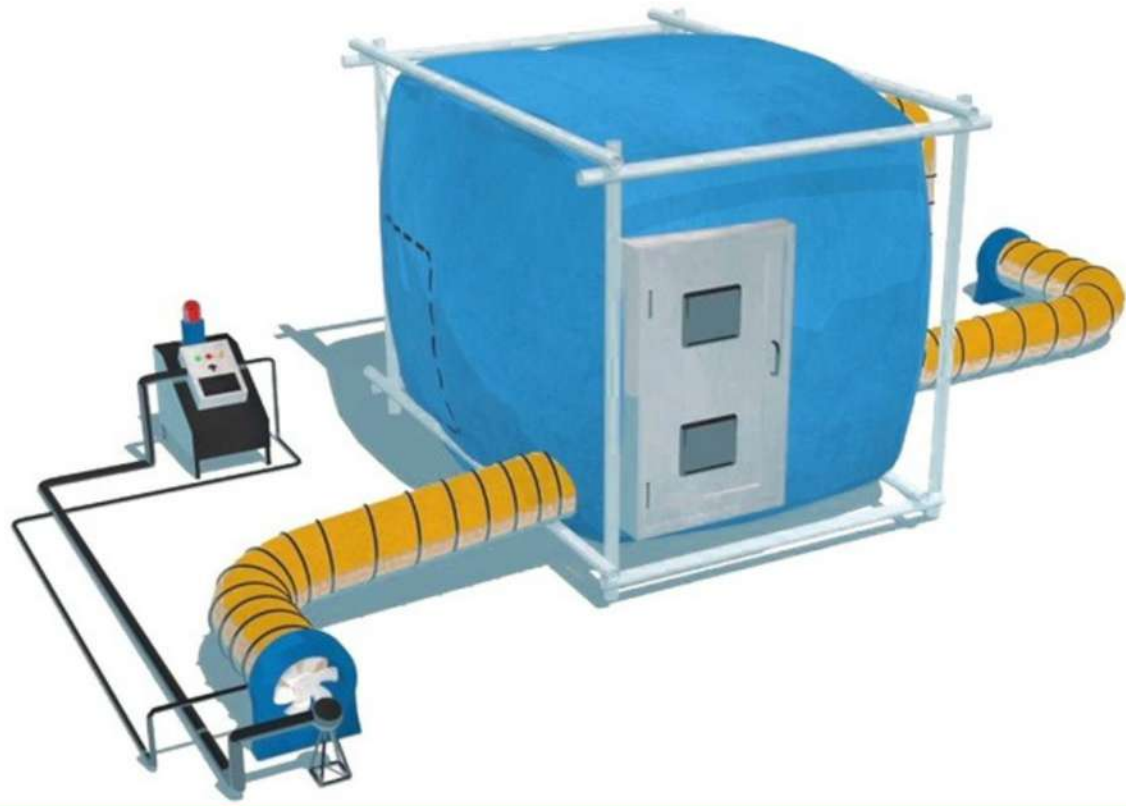
Combustion Fire Triangle

A Fire Triangle is a well known educational tool for understanding and preventing fires

- ▶ If the fire triangle is complete, a fire will occur
- ▶ Therefore, preventing one of the situational factors will prevent a fire
- ▶ In many cases, requirements will often regard preventing fires



Combustion Control



Operational Controls

- Permit to work system
- Facility gas detection systems

Welding Chamber Controls

- Habitat integrity
- Manometer
- Automatic gas detection and shutdown unit
- Personal gas detectors





About the Company

Moners Creative offers clients a **pressurized welding chamber** or **welding habitat** as a common platform solution that allows **hot work** to be conducted on a hydrocarbon live facility. This will result in safer, more efficient, and more cost-effective alternatives to current industry practices.

Our Offered Services



Short or Long-term **rental of pressurized welding chamber habitats** for use offshore or onshore

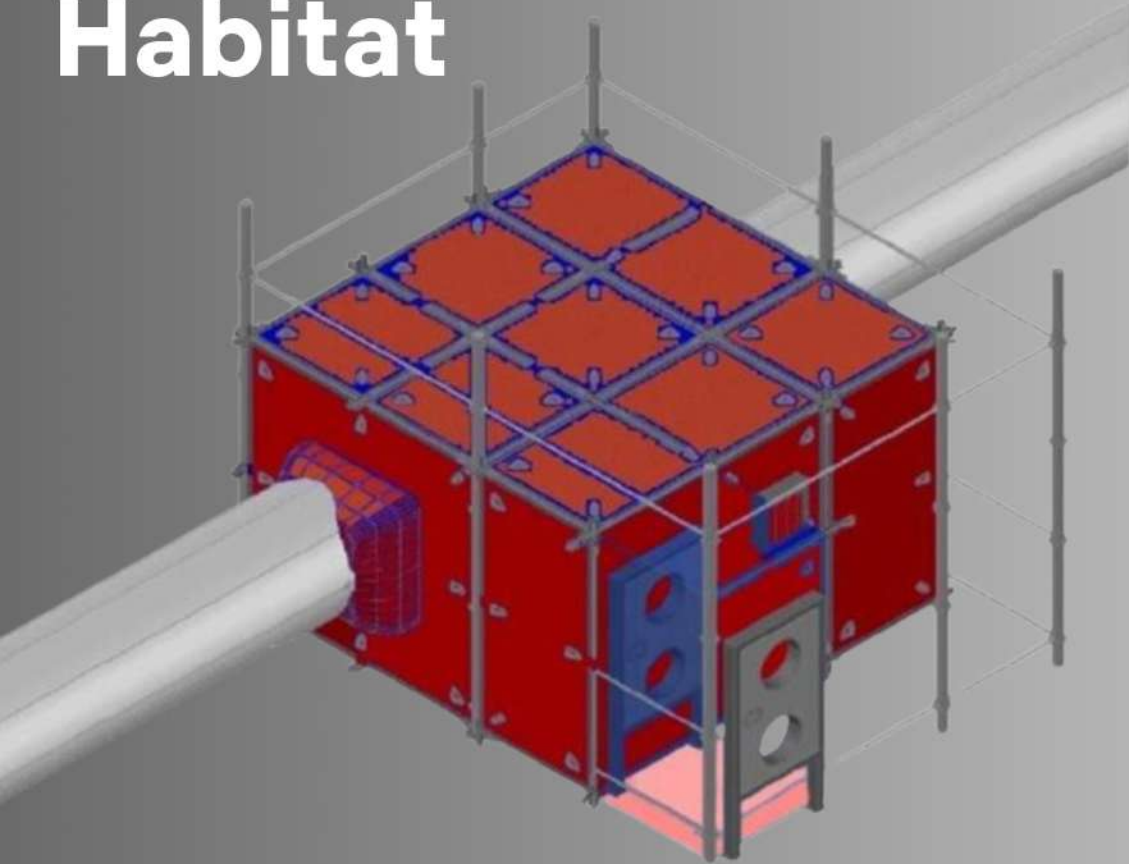


Supply fully trained pressurized welding chamber habitats offshore
personnel



Alternatively, we can **customized training programs** to support your personnel, ensuring the competency and efficiency of your pressurized welding chamber requirements

Welding Chamber Habitat



The basic standard kit is 2m long x 2m wide x 2m high covering 8 meter cubic comprising of ten panels a pneumatic fan & ducting

- Designed for use in potentially explosive atmospheres - Zones 1 & 2
- Modular design - zips together forming many sizes and shapes
- Positively pressurized using a pneumatic driven fan
- No power or hand tools to assemble the pressurized welding chamber
- All the component parts are lightweight
- Gas detection and shutdown unit (optional)

Certified Welding Chamber

Laporan No. 58553/FNB/PAP
Tanggal: 24 Januari 2022

SUCOFINDO
Kantor Pusat:
Jl. Anas Tar Cidung No. 1, Cidung Baras 17122
Telp: (0251) 8521175021 8521195
Email: sucofindo@indosat.net.id

LAPORAN HASIL UJI

PELANGGAN : PT. MONERS CREATIVE
ALAMAT : JL. MERAPI KAV 810 SERUA CIPUTAT - TANGERANG SELATAN BANTEN 15414

NAMA SAMPEL : PYROBLANKET FIREPROOF BLANKET

JENIS PENGUJIAN : UJI TARIK
KETAKANAN API

METODE UJI : ASTM D 638
BS 476 Part 7 - 1997

CONTOH DITERIMA : 7 Januari 2022

CONTOH DIUJI : 10 - 19 Januari 2022

KETERANGAN : Lihat Lembar Lampiran

Lampiran yang ada merupakan bagian yang tidak terpisahkan dari sertifikat ini.

Hasil uji ini hanya berlaku dengan kondisi uji yang diuraikan pada laporan ini. Hasil uji tidak dapat direproduksi dengan cara apapun, kecuali dalam kondisi persis dengan persyaratan teknis sebelumnya.

Peringatan: Sertifikat Laporan ini berlaku pada Syarat dan Ketentuan Umum Layanan jasa PT. SUCOFINDO (PERBRO), yang selamanya dapat berubah atas permintaan atau dapat diakses pada www.sucofindo.co.id

Sub Bagian Teknis
Fandi Fermani

38010622000020

4053443
SCI-2007A

Laporan
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LAPORAN HASIL UJI

Nama Sampel : PYROBLANKET FIREPROOF BLANKET

Kondisi Pengujian : Temperatur : 24,5°C
Kelembaban : 66%

Diuji oleh : Hendri Sukriane
Diverifikasi oleh : Nansang Yulianto

Peralatan Uji : Universal Testing Machine
SN 218
Burner Bumer
SN 2105

Disetujui oleh : Fandi Fermani

No	Item Pengujian	Unit	Hasil
1.	Uji tarik	N/mm²	127,49
	Pemuluran	%	2,47
2.	Pemrosesan api	-	Kelas 1

Gambar Sampel

Tabel Kelas

Gambar Pengujian

Gambar Pengujian

1970772
SCI-2007P

Kementerian Perindustrian REPUBLIK INDONESIA

TANDA SAH CAPAIAN TINGKAT KOMPONEN DALAM NEGERI

Sesuai dengan Peraturan Menteri Perindustrian Republik Indonesia Nomor 02/M-IND/PER/1/2014 tentang Pedoman Peningkatan Penggunaan Produk Dalam Negeri Dalam Perdagangan Barang/Jasa Pemerintah, Nomor 03/M-IND/PER/1/2014 tentang Pedoman Peningkatan Penggunaan Produk Dalam Negeri Dalam Perdagangan Barang/Jasa Pemerintah Yang Tidak Dibayar Dari Anggaran Pendapatan Dan Belanja Negara/Anggaran Pendapatan Dan Belanja Daerah, dan Peraturan Menteri Perindustrian No. 16/M-IND/PER/2/2011 tentang Ketentuan dan Tata Cara Penghitungan Tingkat Komponen Dalam Negeri, hasil verifikasi atas Capaian Tingkat Komponen Dalam Negeri (TKDN) adalah sebagai berikut:

Jenis Produk : Welding Chamber Unit (WCU)
Tipe : Tenda Isolasi Keselamatan Kerja di On/Offshore
Spesifikasi : Bahan : Pyroblanket; Ukuran : 4(p) x 2 (l) x 2 (l) m; Warna Orange Tahan Panas max 1200°C

Kode HS : 63061900
Mark : -
Nilai TKDN : 25,53%
Terbilang : Dua puluh lima koma lima tiga persen
Standart Produk : -
Sertifikat Produk : -
No. Laporan : PTKDN - 1611 - 2200602

yang telah ditandatangani oleh Kementerian Perindustrian dan berlaku 3 tahun terhitung sejak tanggal tanda sah,

diberikan kepada:

Nama Perusahaan : PT. Moners Creative
Alamat : Kp. Baraja RT. 001 RW 015, Desa/Kelurahan Clamperi, Kec. Ketapang, Kab. Bandung, Provinsi Jawa Barat
NPWP : 02.513.574.9-005.000
Jenis Industri : Industri Peralatan Untuk Pelindung Keselamatan (KBLI: 32904)
No. Tanda Sah : 1751/SJ-IND.8/TKDN/5/2022

Jakarta, 27 Mei 2022

Kepala Pusat Peningkatan Penggunaan Produk Dalam Negeri
Nisa Nurhasari

432574

Fire proof panels, Testing Certificate by SUCOFINDO Lab. (Burning Test Method BS476 Part 7 and Tensile Test Method ASTM D638) and Field Testing (Burning Test & Grindstone Test)

Domestic Component Level (TKDN) certified Welding Chamber Unit (WCU) in according with government business requirements

Welding Chamber Habitat Pressure

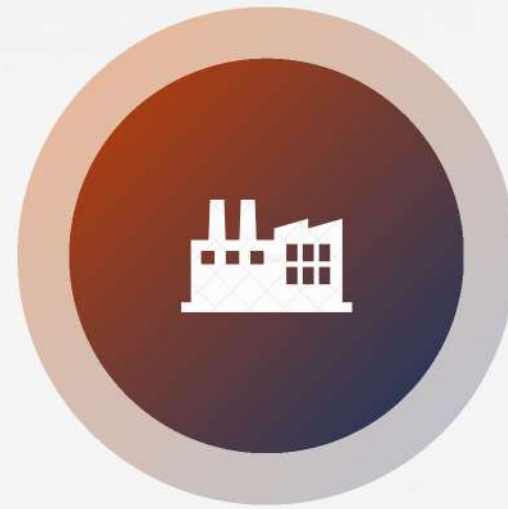
Habitat Size LxWxH	Habitat Volume m³	Fan Flow Rate (m³/sec)	Time for one change		Air change rate	
			In seconds	In minutes	per minute	per hour
1x1x2	2	0.75	2.67	0.04	22.50	1350.00
1x2x2	4	0.75	5.33	0.09	11.25	675.00
3x1x2	6	0.75	8.00	0.13	7.50	450.00
2x2x2	8	0.75	10.67	0.18	5.36	337.50
3x2x2	12	0.75	16.00	0.27	3.75	225.00
2x4x2	16	0.75	21.33	0.36	2.81	168.75
3x3x2	18	0.75	24.00	0.40	2.50	150.00
2x5x2	20	0.75	26.67	0.44	2.25	135.00
3x4x2	24	0.75	32.00	0.53	1.88	112.50
3x5x2	30	0.75	40.00	0.67	1.50	90.00
4x4x2	32	0.75	42.67	0.71	1.41	84.38
4x5x2	40	0.75	53.33	0.89	1.13	67.50

Note: Rates may vary depending on length of air in-take and out-take hoses

Pressurized Welding Chamber System is typically used for



Installation and tie-in of new pipe work for Brownfield Development and Campaigns



Installation of new structural supports and skids for platform/plant upgrades



Repair of critical plant and equipment, cable splicing and housing non-EX equipment



Repair of Process Vessels where internal entry is required



Easy to Customize and Adaptable

Modular zip-fit panel design which can be customized and adapted to fit around pipes and other penetrations where the challenge is to create a safe module in hazardous area



Simple Setup

One person can install a small habitat and installed in under one working shift



Multiple Deployment

Can be dismantled and re-erected as the work progresses



Waste Management

Eliminates the waste disposal of scrap materials (the materials are reusable)



Cost-saving Advantages

Providing a cost-effective solution for your welding needs without compromising on quality



Material's Functionality

Panels are fire proof, interchangeable and can accomodate more than one task

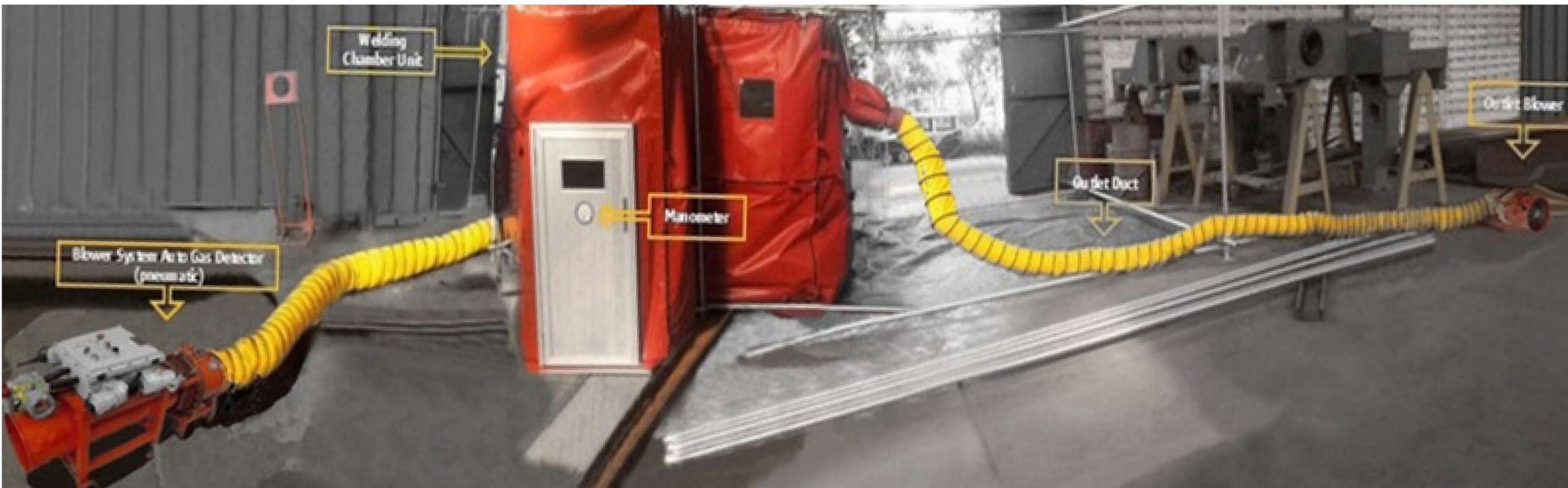
Welding Chamber Habitat Benefits



Pressurized Welding Chamber Systems offer a cost-effective solution that increases efficiency and provides numerous HSE benefits



This addresses the challenge of creating a safe workplace wherever **hot work** in hazardous areas is performed



Automatic Shutdown System



Evolved and Innovated Gas Detection Unit

- Integrated Mobile Gas Detection unit with automatic shutdown system
- Remote gas sensors set at 5% LEL Methane and H₂S
- Simple design and fast alerts, this device keeps workspace safe with minimal effort
- The evolution from gen 1 and gen 2 into an integrated, lightweight, and portable gas detection unit (gen 3)



gen 1



gen 2



gen 3

Certified Axial Fan



TM



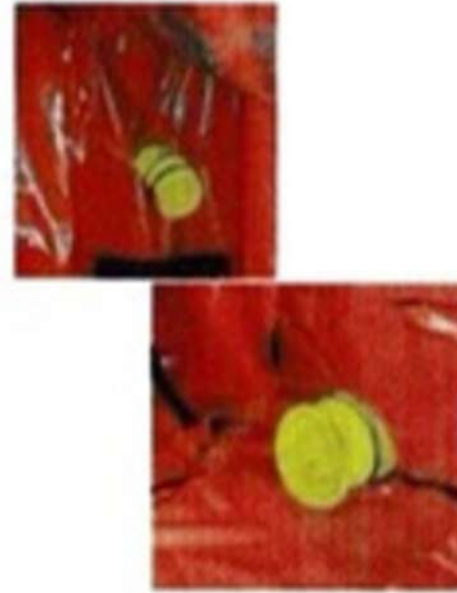
Components



Panel 1x1 Fireproof



Panel Zipper 1x1 Fireproof



Blower Panel Fireproof



Window Panel



Hanger



Aluminium Door 2x1



Emergency Door 2x1



Inlet Blower Electric and Pneumatic



Outlet Blower Electric and Pneumatic



Spiral Hose

Personal Gas Detector



Fire Blanket



Gas Detector



Press. Manometer



Rubber Silicone



Hand Gloves



Velcro



Sticky Back Velcro



FR Duct Tape

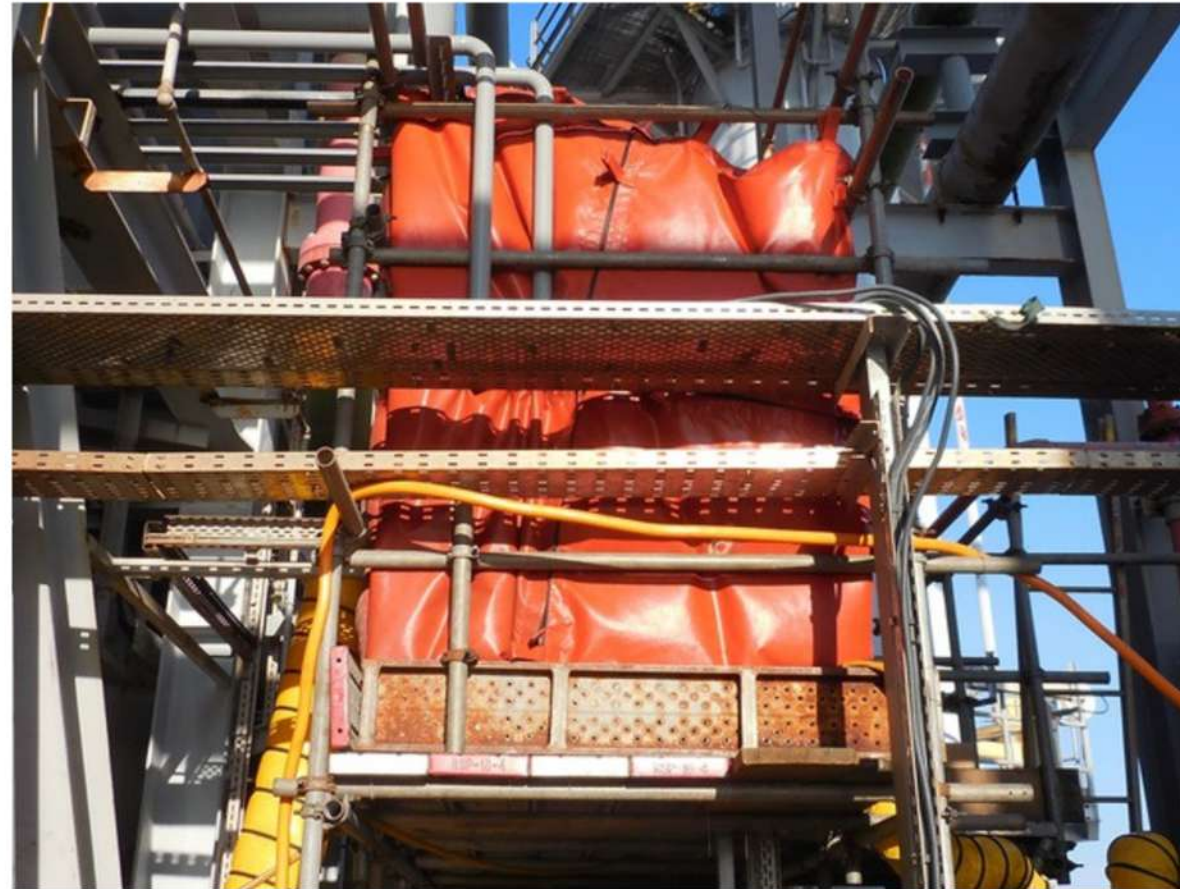


Rope and Wire



Toolbox and
G Clamp 4"

WELDING CHAMBER HABITAT



PROJECT REFERENCES LIST

	END USER/CUSTOMER	PROJECT	TYPES OF PRODUCTS SUPPLIED
1	MEDCO E&P NATUNA LTD (ex COPI)	ISOLATION HOT WORK (HARZADOUS AREA)	WELDING CHAMBER UNIT (HABITAT)
		STRUCTURE STEEL	SMOKING SHELTER
		PIPE LINE	PIPE FITTINGS & VALVE CS/SS316, PVC & CPVC
		MAN POWER	TECHNICIAN HABITAT & SPV.PIPING
2	PREMIER OIL	ISOLATION HOT WORK (HARZADOUS AREA)	WELDING CHAMBER UNIT (HABITAT) & ACCESSORIES
3	MELU BANGUN WIWEKA	ISOLATION HOT WORK (HARZADOUS AREA)	WELDING CHAMBER UNIT (HABITAT) & ACCESSORIES
4	PETRA ENERGY INTERNATIONAL	ISOLATION HOT WORK (HARZADOUS AREA)	WELDING CHAMBER UNIT (HABITAT) & ACCESSORIES
5	ARMADA GEMA NUSANTARA (HCML)	ISOLATION HOT WORK (HARZADOUS AREA)	WELDING CHAMBER UNIT (HABITAT) & ACCESSORIES
		MAN POWER	TECHNICIAN HABITAT



OFFICE

Jl. Merapi Kav. 810 Serua Ciputat - Tangerang Selatan,
Banten 15414



021 743 5640



0813 1630 2678



info@monerscreative.com



monerscreative.com

WORKSHOP

Kp. Baraja RT001 RW015 Kel. Cilampeni, Kec. Katapang -
Kab. Bandung Jawa Barat 40921